

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
530 Virginia Road, P.O. Box 9133
Concord, MA 01742-9133

Telephone: (978) 341-0036

Facsimile: (978) 341-0136

FACSIMILE COVER SHEET

RECEIVED
CENTRAL FAX CENTER

FEB 27 2006

Examiner: Office of Initial Patent Examination
Customer Service Center

Date: February 27, 2006

Client Code: 3462.1014-000

Facsimile No.: 571-273-8300

From: David E. Brook, Esq.

Subject: Request for Corrected Filing Receipt

Docket No.: 3462.1014-000

Applicants: Kazuyoshi Yano, Isao Karube, Aisunori Hiratsuka and Shuo-Wen Tsai

Application No.: 10/533,015

Filing Date: January 30, 2006 (371(c) date)

Number of pages including this cover sheet: 12

Please confirm receipt of facsimile: Yes No

Sir:

A Request for Corrected Filing Receipt is attached.

Best Available Copy

Privileged and Confidential - All information transmitted hereby is intended only for the use of the addressee(s) named above. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient(s), please note that any distribution or copying of this communication is strictly prohibited. Anyone who received this communication in error is asked to notify us immediately by telephone and to destroy the original message or return it to us at the above address via first class mail.

Feb-27-06 04:09pm From-HBS&R
@PFDcskip1..ODMA/MHODMA/HBSR05;iManage|608080;1
DEB/KA/jks
February 27, 2006

1978-341-0136
RECEIVED
CENTRAL FAX CENTER

T-225 P.02/12 F-686
PATENT APPLICATION
Docket No.: 3462.1014-000

FEB 27 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kazuyoshi Yano, Isao Karube, Atsunori Hiratsuka and Shuo-Wen Tsai
Application No.: 10/533,015 Group: 1753
371(c) Filing Date: January 30, 2006 Examiner: Not available
Confirmation No.: 1671
For: METHOD FOR CONTROLLING SUBSTANCE TRANSFER (as amended)

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on	
2/27/06	<u>Judith K. Sherman</u>
Date	Signature
Judith K. Sherman	
Typed or printed name of person signing certificate	

REQUEST FOR CORRECTED FILING RECEIPT

FOR UTILITY APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We hereby request that the following items of information be added to and corrected on the Filing Receipt for the subject application received in this office on February 24, 2006.

The errors and corrections appear below.

In the Applicant(s) portion of the Filing Receipt that was received on February 24, 2006, the cities of residence for the inventors have been omitted. In addition, the title of the application has not been revised to reflect the

10/533,015

-2-

amendment made in a Supplemental Preliminary Amendment that was mailed to the USPTO on June 15, 2005.

A copy of the marked-up Filing Receipt with the requested corrections indicated is enclosed. Also enclosed are copies of the previously-filed Declaration, with the cities of residence circled, pages 1 and 2 of the Supplemental Preliminary Amendment, with the amendment to the title circled, and the postcard receipt submitted with the Supplemental Preliminary Amendment.

Pursuant to instructions in the February 29, 2000 O.G., Applicans' Attorney hereby requests that the above-identified errors be corrected in the USPTO records and that a Corrected Receipt be issued

Respectfully submitted,
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By David E. Brook
David E. Brook
Registration No.: 22,592
Telephone: (978) 341-0036
Facsimile: (978) 341-0136

Concord, MA 01742-9133
Date: 2/27/06

Best Available Copy



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO	FILING OR 371 (C) DATE	ART UNIT	FE FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/533,015	01/30/2006	1753	1030	3462.1014-000	3	10	3

CONFIRMATION NO. 1671

21005
 HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 530 VIRGINIA ROAD
 P. O. BOX 9133
 CONCORD, MA 01742-9133

FILING RECEIPT

"OC000000018055166"

COPY

Date Mailed 02/16/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Kazuyoshi Yano, Setagaya-ku, JAPAN; TOKYO, JAPAN
 Isao Karube, Yokohama-shi, JAPAN; KANAGAWA, JAPAN
 Atsunori Hiratsuka, Sagamihara-shi, JAPAN; KANAGAWA, JAPAN
 Shuo-Wen Tsai, Tsuchiura-shi, JAPAN; IBARAKI, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 21005.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/13768 10/28/2003

Foreign Applications

JAPAN 2002-313534 10/28/2002

Projected Publication Date: 05/25/2006

Non-Publication Request: No

Early Publication Request: No

Title

RECEIVED

FEB 24 2006 25

HAMILTON, BROOK
 SMITH & REYNOLDS, P.C.

Method of controlling migration of substance

**METHOD FOR CONTROLLING
SUBSTANCE TRANSFER****Preliminary Class**

204

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR

1.53(d) This license is not retroactive

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations, especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

DOCKET NO. 3462 1014-000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application/Power of Attorney**COPY** Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name:

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signature page(s) commencing at page 2 hereto) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method for Controlling Substance Transfer

the specification of which (check one)

- is attached hereto.
- was filed on [] as United States Application Number [].
- was filed on October 28, 2003 as PCT International Application No. PCT/JP2003/013768 and assigned United States Application No. 10/533,015.
- and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Not Claimed	Certified Copy Filed? YES	NO
2002-313584 (Number)	Japan (Country)	28/October/2002 (Day/Month/Year filed)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 (Number)	 (Country)	 (Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 (Number)	 (Country)	 (Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

-2-

As a named inventor, I hereby appoint the attorneys and/or agents associated with Hamilton, Brook, Smith & Reynolds, P.C., 530 Virginia Road, Concord, Massachusetts 01742-9133, Customer No. 021005, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please send correspondence to:

Customer No. 021005
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 530 Virginia Road, P.O. Box 9133
 Concord, MA 01742-9133

Direct telephone calls to: David E. Brook, Esq. Telephone No.: 978-341-0036
 Direct faxes/direct to: David E. Brook, Esq. Facsimile No.: 978-341-0136

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	<u>Kazuyoshi Xano</u>		
Inventor's Signature	<u>Kazuyoshi Xano</u>		
Residence: City	State	Country	Citizenship

Setagaya-ku	Tokyo	Japan	Japan
-------------	-------	-------	-------

Mailing Address (Business or Residential)	Street or P.O. Box	City	State	ZIP	Country
	1-12-6, Kita-ku, Setagaya-ku				

Setagaya-ku	Tokyo	155-0031	Japan
-------------	-------	----------	-------

Full name of second joint inventor, if any	<u>Isao Karube</u>		
Inventor's Signature	<u>Isao Karube</u>		
Residence: City	State	Country	Citizenship

Yokohama-shi	Kanagawa	Japan	Japan
--------------	----------	-------	-------

Mailing Address (Business or Residential)	Street or P.O. Box	City	State	ZIP	Country
	2-54-10, Utsunomiya-cho, Aoba-ku, Yokohama-shi				

Yokohama-shi	Kanagawa	225-0002	Japan
--------------	----------	----------	-------

-3-

Full name of third joint inventor, if any		Atsumori Hiratsuka		
Inventor's Signature		<i>Atsumori Hiratsuka</i>		
Residence: City	State	Country	Citizenship	
Sagamihara-shi	Kanagawa	Japan	Japan	
Mailing Address (Business or Residential) Street or P.O. Box		11-10-207, Hashimoto 4-chome, Sagamihara-shi		
City	State	ZIP	Country	
Sagamihara-shi	Kanagawa	229-1103	Japan	

Full name of fourth joint inventor, if any		Shuo-Wen Tsai		
Inventor's Signature		<i>Tsai</i> <i>Shuo-Wen</i>		
Residence: City	State	Country	Citizenship	
Tsuchiura-shi	Ibaraki	Japan	Taiwan	
Mailing Address (Business or Residential) Street or P.O. Box		201, Kompo Arakawaoka, 7-16, Nakastakawaki-machi, Tsuchiura-shi		
City	State	ZIP	Country	
Tsuchiura-shi	Ibaraki	300-0875	Japan	

@PFD=100;CDM\VMHDDMA\HBSROS;Module:584967.1

@PFDekstop:ODMA/MHODMA/HBSR05;iManage;554994;1
DEB/KA/ps
06/15/05

PATENT APPLICATION
Attorney's Docket No. 3462 1014-000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kazuyoshi Yano, Isao Karube, Atsunori Hiratsuka and Shuo-Wen Tsai

Application No.: 10/533,015

Filed: U.S. National Phase of PCT/JP2003/013768, filed October 28, 2002

Confirmation No.: Not available

For: METHOD OF CONTROLLING MIGRATION OF SUBSTANCE

COPY

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
10-15-05	Pamela Sando
Date	Signature
PAMELA SANDO	
Typed or printed name of person signing certificate	

SUPPLEMENTAL PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please amend the application as follows:

10/533,015

-2-

Amendments to the Title

Please delete the title of the application and replace it with the following amended title:
METHOD FOR CONTROLLING SUBSTANCE TRANSFER.

Amendments to the Specification

Please replace the paragraph at page 4, line 25 - page 5, line 5 with the following amended paragraph:

The present inventors conducted intensive studies on structures wherein the timing of contact of fluid substances placed in a number of cavities can be controlled without depending on a mechanical structure. Thus, they discovered that the transfer of fluid substances in a number of cavities isolated by an intervening intermediate cavity can be controlled by introducing a medium to the intervening intermediate cavity. The present inventors also discovered that using this technique enables the control of not only fluid substances, but also of substances comprised in the fluid substances, completing the present invention. The present invention relates to methods for controlling fluid substances and/or substances comprised in fluid substances, and devices for realizing such control methods, as described below. The present invention also relates to methods of electrophoretic analysis using such methods, and devices for such methods.

Please replace the paragraph at page 5, lines 6-20, with the following amended paragraph:

[1] A method for controlling the transfer of a fluid substance and/or a substance comprised in a fluid substance, from the first cavity to the second cavity, comprising the steps of:

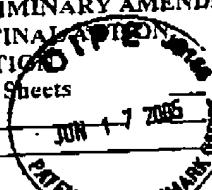
a) introducing into the first cavity, a fluid substance whose transfer is to be controlled and/or a substance whose transfer is to be controlled comprised in the fluid substance, and holding the fluid substance and/or the substance comprised in the fluid substance in the first cavity, wherein the first cavity is connected to the second cavity by an intervening intermediate cavity, and the intervening intermediate cavity is provided with a separation medium which prevents transfer of the fluid substance and/or the substance comprised in the fluid substance into the intervening intermediate cavity;

Initials: DEB/KA/ps Docket No.: 3462.1014-000 Date: June 15, 2005
(SEN-A0203P-US)

This is to acknowledge receipt of the following documents each filed under Certificate of Mailing Procedure 37 C.F.R. 1.8:

JC10 Rec'd PCT/PTO: F7 JUN 2005

- Amendment/Reply Fee Letter w/copy
 Pet. Ext of Time included in Fee Letter Sep. Pet Ext Time w/copy
 SUPPLEMENTAL PRELIMINARY AMENDMENT
 AMENDMENT AFTER FINAL ACTION
 REPLY TO OFFICE ACTION
 Replacement Sheets [] Sheets Annotated Sheets [] Sheets
 Check for \$ _____
 Other



Applicant: Kazuyoshi Yano et al. Filed: Int'l App. filed 10/28/02
Application No.: 10/533,015
Title: METHOD OF CONTROLLING MIGRATION OF SUBSTANCE
Date received by the PTO:
@PFDektop:ODMA/MHODMA/HBSR05,Manage,555103,1

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:



BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.